PHYSICS

BOOKS - NAVNEET PHYSICS (MARATHI ENGLISH)

WORK AND ENERGY

Question Bank

1. What actions are seen in the picture ?

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2. Answer the following question in one sentence each:

What happens when a force is applied in the direction of body of a motion?

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3. In the various actions in the picture, has the object changed its original position ?

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4. In the above activity, which are the different force acting on the box ?

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5. Is the displacement possible without a force ?

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6. The work done by a force is said to be .....when the applied force does not produce displacement.

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7. Is the displacement possible without a force ?

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8. A stretched rubber band when released regainsits original length

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9. What will happen as a result of the action ?

A stone is held in the rubber of a catapult, the rubber is stretched and released.

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10. What will happen in the following case

One marble strikes another in a game of marbles.

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11. While playing carrom, from were does the striker get the energy to make the pieces (coins) move ?

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12. Fill in the blanks with the appropriate term from the brackets :

The capacity that an object has for doing work is called _____ .

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13. Fill in the blanks with the appropriate term from the brackets :

If a ball dropped on the sloping roof of a house, it acquires _____ and falls on the

ground. That is transformation of _____ energy into _____ energy takes place.

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14. Fill in the blanks with the appropriate term from the brackets :

You might have seen some beautiful fireworks during Diwali. It is an example of transformation of _____ energy into _____ energy.

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15. Fill in the blanks with the appropriate term from the brackets :

The solar cooker is an application of the _____ energy of the sun, while soller cells. solar lamps are applications of the _____ energy of the sun.

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16. Fill in the blanks with the appropriate term from the brackets :

One labourer carried four pans of road metal through of 100 metres. If he carries two pans of road metal through a 200 metre distance _____ work will be done.

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17. Fill in the blanks with the appropriate term from the brackets :

The capacity that an object has for doing work is called _____ .

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18. Match the pairs :

Group 'A'	Group 'B'
Rolling object	(a) Heat energy
Food	(b) Atomic energy
Stretched bow	(c) Kinetic energy
Sunlight	(d) Potential energy
Uranium	(e) Chemical energy

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19. Find the odd one out :

A. Diesel

B. crude oil

C. natural gas

D. wind

Answer: D

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20. Find the odd one out :

A. A running car

B. hauling a log

C. a book kept on a table

D. packing up the school bag

Answer: C

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21. Find the odd one out :

A. sunlight

B. wind

C. waves

D. petrol

Answer: D

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22. Find the odd one out :

A. Leaving the fan on in a vacant room

B. leaving the TV on while working

C. using AC during winter

D. putting off the light when going out

Answer: D

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23. Classify the energy resources into conventional and non-conventional groups :

Wind energy, petrol, dung-cakes, atom of uranium, natural gas, sun, diesel, waves the ocean.

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24. When can we say that displacement has taken place ?

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25. What should be taken into account for measuring work ?

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26. Answer the following questions:

Name the various forms of energy.

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27. Describe natural chain of transformation of energy.

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28. Why should we save energy ?

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29. What is 'green energy' ?

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30. What are the non- conventional energy resources ?

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31. Which forms of energy from the sun are used in solar energy devices ?

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32. Why should we maximize the use of non-conventional energy resources ?

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33. Why do you get hungry after physical exercise ?

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34. From where does our body get energy ?

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35. Why do we get tired ?

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36. In which form is energy stored in plant food ?

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37. How is energy obtained from cooking gas ?

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38. There is energy in every substance in the universe. It is present in non-living things as well as in living things. Why, then is energy not visible to us ?

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39. Name green energy resources.

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40. Why are non-renewable energy resources also called traditional energy resources.

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41. Which heavy metals are used to produce atomic energy ?

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42. Name the fossil fuels.

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